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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/708,225 11/08/2000 Keith Luker 1511-00 1140 10/07/2002 22469 7590 SCHNADER HARRISON SEGAL & LEWIS, LLP EXAMINER 1600 MARKET STREET SORKIN, DAVID L **SUITE 3600** PHILADELPHIA, PA 19103 PAPER NUMBER ART UNIT 1723 DATE MAILED: 10/07/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

			16-9
	,	Application No.	Applicant(s)
		09/708,225	LUKER, KEITH
	Office Action Summary	Examiner	Art Unit
		David L. Sorkin	1723
Period	The MAILING DATE of this communication ap for Reply	ppears on the cover she	with the correspond nce address
A S TH - E a - If - If - F	SHORTENED STATUTORY PERIOD FOR REPLEMENTED BY THIS COMMUNICATION. Attensions of time may be available under the provisions of 37 CFR 1. Attensions of time may be available under the provisions of 37 CFR 1. Attensions of time may be available under the provisions of 37 CFR 1. Attensions of time may be available under the provisions of 37 CFR 1. NO period for reply specified above, the maximum statutory period allure to reply within the set or extended period for reply will, by statutiny reply received by the Office later than three months after the mailing arned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, ma ply within the statutory minimum of d will apply and will expire SIX (6) Note, cause the application to becom	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. BARANDONED (35 U.S.C. § 133).
1)[Responsive to communication(s) filed on 30	July 2002 .	
2a)[☑ This action is FINAL . 2b)☐ T	his action is non-final.	
3)[Dispos	Since this application is in condition for allow closed in accordance with the practice unde sition of Claims		
4)[extstyle ext	on.	
	4a) Of the above claim(s) 21-33 is/are withdra	awn from consideration.	
5)[Claim(s) is/are allowed.		
6)[☑ Claim(s) <u>1-20</u> is/are rejected.		
7)[Claim(s) is/are objected to.		
](8 Applic	Claim(s) are subject to restriction and/ ation Papers	or election requirement.	
• •	The specification is objected to by the Examin	ier.	
10)[is/are: a)☐ acc	epted or b)⊡ objected to I	by the Examiner.
	Applicant may not request that any objection to t	he drawing(s) be held in at	peyance. See 37 CFR 1.85(a).
11)[The proposed drawing correction filed on	is: a)□ approved b)□	disapproved by the Examiner.
	If approved, corrected drawings are required in r	eply to this Office action.	
12)[$\centcal{f }$ The oath or declaration is objected to by the E	xaminer.	
Priorit	y under 35 U.S.C. §§ 119 and 120		
13)[Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.	C. § 119(a)-(d) or (f).
	a) ☐ All b) ☐ Some * c) ☐ None of:		
	1. Certified copies of the priority documer	nts have been received.	
	2. Certified copies of the priority documer	nts have been received i	n Application No
	Copies of the certified copies of the pri application from the International B See the attached detailed Office action for a lis	Bureau (PCT Rule 17.2(a)).
14)[Acknowledgment is made of a claim for domes	stic priority under 35 U.S	.C. § 119(e) (to a provisional application).
15)[a) ☐ The translation of the foreign language p☐ Acknowledgment is made of a claim for domes	5.5	
Attachn		· -	
2) 🔲 N	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-948) formation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 1-20 in Paper No. 9 is acknowledged.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 7, 9-11, 14 and 15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. In claim 7, there is lack of antecedent basis for "said first and subsequent channels".
- 5. In claim 9, there is lack of antecedent basis for "said first and subsequent channels".
- 6. In claim 10, there is lack of antecedent basis for "said first and subsequent channels".
- 7. In claim 11, there is lack of antecedent basis for "said first and subsequent channels".
- 8. In claim 14, the scope of "unconnected" is unclear.
- 9. In claim 15, there is lack of antecedent basis for "said cross-axial channels".



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Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-11 and 13-20 are rejected under 35 U.S.C. 102(b) as being anticipated 11. by Araki (US 3,184,790). Regarding claim 1, Araki ('790) discloses an extruder mixer comprising a rotatable elongated screw (2) and means for rotating said screw (see col. 3, line 59 to col. 4, line 1), said screw having a mixing section having an inlet channel (5, for example at the 11 o'clock position in Fig. 2), flowingly connected to a cross-axial pump (4, for example at the 10 o'clock position in Fig. 2), wherein a downstream inlet channel (5, for example at the 9 o'clock position in Fig. 2) is connected to further feed at least one downstream cross-axial pump (4, for example at the 8 o'clock position in Fig. 2 that is bounded by a flight on at least one side (4, for example at the 6'oclock position in Fig. 2). The extruder mixer has an output (1). Note: as held in Ex parte Thilbault, 164 USPQ 666,667 (Bd. App. 1969) "Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim". Regarding claim 2, the cross-axial pumps are bounded by channels on more than one side (see Fig. 2). Regarding claim 3, an upstream feeder is flowingly connected (see col. 2, lines 34-35). Regarding claim 4, a screw channel is provided (see col. 2, lines 34-35). Regarding claim 5, an output flight (3) is flowingly connected to a downstream flight of said mixer section. Regarding claim 6, an output



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flight (3) is flowingly connected to a channel of said extruder mixing section. Regarding claim 7, the dimensions of the channels are substantially the same as each other (see Fig. 2). Claim 8, fails to further structurally limit the claimed apparatus because the orientation of a claimed apparatus is a matter of use, not structure. The manner in which an apparatus is used does not differentiate a claimed apparatus from the prior art. See MPEP 2114. Regarding claim 9, the height of the walls of the channels are slightly different (see Fig. 2). Regarding claims 10 and 11, subsequent pumps such that the dimensions of said first and subsequent pumps are the same and different from each other are both disclosed (see Fig. 2, for example at the 2, 4, 8 and 10 o'clock positions). Regarding claim 13, said channels are oriented at an angle to the screw axis (see col. 2, lines 44-47). Claim 14 is difficult to address do to its high degree of indefiniteness; however, a channel bounded by a flight on one side is disclosed (see Fig 2). Regarding claim 15, at least some of said channels are bounded by a flight on two sides (see Fig. 2). Regarding claim 16, the manner in which an apparatus is used does not differentiate a claimed apparatus from the prior art. See MPEP 2114. Regarding claim 17, resistance devices (4) are provided on said screw. Regarding claim 18, there are multiple inlet channels (see Fig. 2). Regarding claim 19, there are multiple connected inlet flights (see Figs. 1 and 2). Regarding claim 20 there are multiple connected outlet flights (see Figs. 1 and 2).

12. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Housz (US 4,218,146). Regarding claim 1, Housz ('146) discloses an extruder mixer comprising a rotatable elongated screw (4) and means for rotating said screw (see col.



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lines 21-23), said screw having a mixing section having an inlet channel (17), flowingly connected to a cross-axial pump (14), wherein a downstream channel (17 or 18) is connected to further feed at least one downstream cross-axial pump (14 or 13) that is bounded by a flight (13) on at least one side. The extruder mixer has an output (see col. 6, lines 23-28). Note: as held in Ex parte Thilbault, 164 USPQ 666,667 (Bd. App. 1969) "Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim". Regarding claim 2, the cross-axial pumps are bounded by channels on more than one side (see Fig. 3). Regarding claim 3, an upstream feeder (5) is flowingly connected. Regarding claim 4, a screw channel is provided (see Fig. 1). Regarding claim 5, an output flight (7) is connected to a downstream flight of said mixer section. Regarding claim 6, an output flight (7) is flowingly connected to a channel of said extruder mixing section. Regarding claim 7 and 9, similarly and differently dimensioned channels are disclosed (see Fig. 3). Claim 8, fails to further structurally limit the claimed apparatus because the orientation of a claimed apparatus is a matter of use, not structure. The manner in which an apparatus is used does not differentiate a claimed apparatus from the prior art. See MPEP 2114. Regarding claims 10 and 11, subsequent pumps such that the dimensions of said first and subsequent pumps are the same and different from each other are both disclosed (see Fig. 3). Regarding claim 12, said channels are oriented substantially parallel to the screw axis (see Fig. 1). Regarding claims 13, said channels may be oriented at an angle to or parallel to the screw axis (Figs. 2 and 6). Claim 14 is difficult to address do to its high degree of indefiniteness; however, a

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channel bounded by a flight on one side is disclosed (see Fig 3). Regarding claim 15, at least some of said channels are bounded by a flight on two sides (see Fig. 3). Regarding claim 16, the manner in which an apparatus is used does not differentiate a claimed apparatus from the prior art. See MPEP 2114. Regarding claim 17, resistance devices (13,14) are provided on said screw. Regarding claim 18, there are multiple inlet channels (see Fig. 3). Regarding claim 19, there are multiple flowingly connected inlet flights (see Figs. 1 and 2). Regarding claim 20 there are multiple flowingly connected outlet flights (see Figs. 1 and 2).

Response to Arguments

- 13. Applicant discusses supposed differences between the instant invention and the prior art, but makes no attempt to direct the discussion toward any claims.
- 14. Applicant implies the "first inlet channel" of in the instant invention is bounded only one side; however, it is clear from 1b that the first inlet channel is bounded on one side by flight 22 and the other side by flight 26.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Sorkin whose telephone number is 703-308-1121. The examiner can normally be reached on 8:00 -5:30 Mon.-Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on 703-308-0457. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

David Sorkin

October 3, 2002

CHARLES E. COOLEY